

LISTing Newsletter

Newsletter of the Long Island Sinclair/Timex Users Group
(Incorporating N.Y.T.S.E.)



March 1993
Issue

Next Meeting
March 14

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LISTing Policy

Annual Dues....\$16.00

One "sample" copy sent upon receipt of a large SASE.

Copies provided on EXCHANGE BASIS with other bona fide user groups. LISTing is published monthly except July and August by LIST (Long Island Sinclair Timex) Group, a non profit user group.

We are always looking for articles, programs, reviews, etc. to keep our members informed and entertained. You maintain full copyright.

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LIST disclaims any responsibility for any damage you may do to your computer as a result of reading any articles in LISTing.

LIST OFFICERS

+++++
 PRES. HARVEY RAIT
 TRES. ROBERT MALLOY
 COR. SEC. JOHN PAZMINO
 EDITOR. FRED STERN
 LIBR. TOM SKAPINSKI
 +++++

PLEASE SEND INQUIRIES TO:
 LIST
 MR. HARVEY RAIT
 5 PERI LANE
 VALLEY STREAM, N.Y. 11581

PLEASE SEND SUBMISSIONS TO:
 LISTING
 MR. FREDERIC STERN
 P.O. BOX 284
 HOLBROOK, N.Y. 11741
 +++++

NYTSE
 +++++
 NYTSE MEETS THE THIRD MONDAY IN
 THE MONTH AT:
 MISS KIMS RESTAURANT
 PARK AVENUE SOUTH
 BETWEEN 21 ST. AND 22 ST.
 MEETINGS START 7:30 PM.

COMING EVENTS:

 MAR. 14, 1993 LIST MEETING.
 MAR. 15, 1993 NYTSE MEETING

 SPECIAL NOTICE

THE NEXT MEETING WILL BE HELD AT
 THE ICE CREAM DISPENSARY
 (HARVEYS STORE)
 334 DOGWOOD AVENUE
 FRANKLIN SQUARE, N.Y.
 TEL: 516-486-1090

DIRECTIONS; SOUTHERN STATE PKWY
 TO EXIT 17 NORTH (HEMPSTEAD AVE)
 GO TO FIRST TRAFFIC LIGHT,
 LEFT TURN ON TO CORNWALL,
 NEXT TRAFFIC LIGHT, BEAR RIGHT
 ON TO DOGWOOD AVENUE. GO 1 MILE
 TO THE ICE CREAM DISPENSARY. IN
 A SMALL SHOPPING CENTER ON THE
 LEFT SIDE OF THE ROAD.

MEETING MINUTES

 REPORTED BY: FRED STERN
 FEB. 21, 1993

 HARVEY CALLED THE MEETING TO
 ORDER AT 2:00PM.

IN CORRESPONDENCE WE RECEIVED
 4 RENEWALS, AND 2 LETTERS ASKING
 TO PLACE ADS IN OUR CLASSIFIED
 SECTION.

BOB MALLOY GAVE THE TREASURERS
 REPORT. WE ARE IN GOOD SHAPE
 WITH \$775.00 IN THE LIST ACCT.
 EXPENSES WERE FOR PRINTING,
 POSTAGE AND SUPPLIES FOR THE
 NEWSLETTER.

FRED REPORTED THAT MANY ORGAN-
 IZATIONS INCLUDING LIST OFFERED
 TO BECOME SPONSORS OF CUB SCOUT
 PACK 552. THE PACK SELECTED THE
 LOCAL CIVIC ASSOCIATION. IN BE-
 HALF OF PACK 552, FRED THANKED
 LIST FOR ITS GRACIOUS OFFER OF
 SPONSORSHIP.

FRED ADVISED THAT ENQUIRIES HAVE
 NOT AS YET BEEN MADE TO CABLE
 T.V. COMPANIES ABOUT PUBLIC
 ACCESS T.V. BROADCASTING A COM-
 PUTER INFORMATION SHOW.

LIST - QL SHOW?

 IN MAY THEIR IS A CHANCE THAT
 LIST COULD BE HOSTING A MIRACLE
 SYSTEMS DEMONSTRATION OF QL
 PERIPHERALS AND HARDWARE.
 WATCH FOR FURTHER DETAILS, NEXT
 MONTH.

DIGITIZER DEMONSTRATION

 BOB GILDER GAVE A DEMONSTRATION
 OF THE DIGITIZER WHICH WAS RE-
 PORTED ABOUT IN LAST MONTHS QL
 CORNER OF LISTING.
 THE DEMONSTRATION WAS INCREDABLE
 TO SAY THE LEAST. THE DEVICE
 WILL FREEZE A FRAME OF VIDEO
 FROM A VCR, CAMCORDER OR T.V.
 TUNER AND STORE IT INTO A 32K
 SLOT OF MEMORY. IT CAN THEN BE
 STORED TO DISC. FOR USE LATER,
 OR REDUCED IN SIZE AND COMBINED
 WITH ANOTHER DIGITIZED FRAME OR
 TEXT.
 THE APPLICATIONS IN GRAPHIC ARTS
 WORD PROCESSING AND DESK TOP
 PUBLISHING SEEM LIMITED ONLY BY
 ONES MIND. ALL YOU NEED IS A
 QL SYSTEM AND THE DIGITIZER.
 THE CONTRAST AND CLARITY OF
 BLACK AND WHITE PICTURES WERE
 EXCELLENT. THE DIGITIZER HAS A
 CONTROL WHICH ACTS AS A BRIGHT-
 NESS CONTROL TO MAKE THE FRAME
 DARKER OR LIGHTER. COLORED
 REPRODUCTION IS NOT GOOD. THE
 PIXTELS SELECTED BY THE COMPUTER
 ARE NOT DESIGNED TO REPRODUCE
 THE COLORS OF THE ORIGINAL, BUT
 TO REPRODUCE THE GREY SCALE
 IMAGING.

CLASSIFIEDS

 THIS CLASSIFIED SECTION IS
 AVAILABLE TO ALL LIST MEMBERS
 FREE OF CHARGE.
 THE ONLY RESTRICTION IS THAT
 IT IS TO BE USED ONLY FOR THE
 SEEKING, SELLING OR SWAPPING
 OF SINCLAIR, TIMEX OR MICROACE
 COMPUTER EQUIPMENT, PERIPHERALS
 AND SOFTWARE.
 LISTING, LIST, AND ITS OFFICERS
 DO NOT ENDORSE, WARRANTY, OR
 GUARANTEE ANY OF THE ITEMS
 LISTED IN THIS CLASSIFIED
 SECTION

 CONTINUE ON PAGE 3

THE FOLLOWING PUBLICATIONS ARE
AVAILABLE ONLY THROUGH LIST:

ZX-81/TS1000 TECHNICAL TIDBITS
TECHNICAL TIDBITS PART II
SAVINGS AND LOAD OF THE TIMEX
COMPUTER
\$4.00 EACH.

WANTED: A FULL SIZED KEYBOARD
CASE FOR THE TS1000. PREFERABLY
ONE WITH A SPACE BAR, BUT WILL
CONSIDER ONE WITHOUT. WRITE AND
GIVE PRICE AND CONDITION;
WILLIAM DES LAURIERS
9926 KRAMER CT.
INDIANAPOLIS, IN. 46236-1647

I AM TRYING TO FIND A ZX81/
TS1000 LARKEN DISK INTERFACE FOR
A FRIEND IN AUSTRALIA. WORKING
NONWORKING OR BARE BOARD.
DONALD S. LAMBERT
1301 KIBLINGER PLACE
AUBURN, IN. 46706-3010
TEL: 219-925-1372

DOES ANYBODY HAVE ANY INFORM-
ATION ON A HARD DISK DRIVE AND
INTERFACE THAT WILL WORK WITH A
ZX81/TS1000 OR TS2068? IF SO
PLEASE CONTACT; MR. DONALD S.
LAMBERT AT THE ABOVE ADDRESS OR
MR. FRED STERN THROUGH LIST.

I HAVE THE FOLLOWING EQUIPMENT
FOR SALE: TS1000, (2) TS1016
RAM PACKS, TS2050 MODEM, TS1000
PROGRAMS, OTHER PERIPHERALS.
MR. MICHAEL BURNS
257 SANFORD ST.
ROCHESTER, N.Y. 14620
TEL. 716-442-3142

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A FINAL WORD

MY NAME IS FRED STERN AND I AM
THE EDITOR OF THIS EDITION OF
LISTING.

LAST ISSUE OF LISTING MARKS OUR
9TH YEAR ANNIVERSARY. WHEN PAUL
DONNELLY, OUR FOUNDING FATHER,
RELEASED THE PRIMER ISSUE NO.
2-84, WHO COULD IMAGINE THAT WE
WOULD GO THIS FAR. WE ARE STILL
MONTHLY (EXCEPT FOR JULY AND
AUGUST), STILL LARGER THEN OUR
ORIGINAL 4 PAGES, AND INTEND TO
CONTINUE PUBLISHING.
BUT TO YOU OUR READERS, I WANT
YOU TO KEEP IN MIND THAT WE CAN
REMAIN ACTIVE ONLY WITH YOUR
SUPPORT. THE TIMEX/SINCLAIR
COMPUTER NEVER DIED. OUR RANKS
MAY HAVE DWINDLED, BUT WE ARE
STILL ACTIVE. THE ORIGINAL
OBJECTIVE OF SIR. CLIVE SINCLAIR,
WAS TO MAKE AVAILABLE TO THE
COMMON MAN, INEXPENSIVE COMPUT-
ING. THIS IS ALSO WHY MOST OF US
STARTED AND REMAINED WITH OUR
TIMEX/SINCLAIR COMPUTERS.
IN THIS TIME OF ECONOMIC RECES-
SION, WHEN MONEY IS TIGHT,
THE IDEA AND PREMISE OF INEXPEN-
SIVE COMPUTING IS BECOMING MORE
APPEALING TO PEOPLE IN LIEU OF
BUYING AN EXPENSIVE MAC, IBM OR
CLONE. I FEEL THAT A REBIRTH OF
INTEREST IS COMING FOR OUR MACH-
INES. IF YOU CONTRIBUTE AN
ARTICLE OF INTEREST FOR PUBLIC-
ATION IN LISTING, OR SELL SOME
SURPLUS EQUIPMENT THROUGH OUR
CLASSIFIED SECTION, YOU WILL BE
HELPING OTHER SINCLAIRISTS, AND
POSSIBLY CREATING NEW ONES.
THINK ABOUT IT...

SPECIAL THANKS TO TOM SKAPINSKI
AND BOB GILDER FOR THEIR HELP
AND ASSISTANCE.

IN THIS ISSUE WE ARE REPRINTING
ARTICLES FROM THE FOLLOWING
NEWSLETTERS;

SINC-LINK - NOV. 92
QZX - SEP. 92

THESE ARTICLES ARE PRESENTED TO
EDUCATE THE NEW COMPUTER USER
AMONGST US, AND TO REFRESH THE
MEMORY OF THE OLD.

SEE YOU ALL AT THE NEXT MEETING.



MEET THE GANG

COME DOWN TO THE LIST MEETING

ALL ARE INVITED

LE CONNER

This month I'd like to ramble on about printers. As you may recall, last month I had written about the QL Digitizer. Since then I have had a lot of use with my old Epson MX-80 printer, which I had purchased at a LIST swap fest.

This printer was purchased for one use only...to print screen dumps. Most screen dump routines provided with various software use Epson control codes. I've found using an Epson compatible printer for screen dumps does not truly reproduce an image on paper as far as linearity is concerned - a circle is not exactly reproduced. As they say, 'there is no substitute for the real thing'.

Well to get on with it, the MX-80 started to slow down slightly while printing screen dumps, it appeared that the printer head was dragging. Suddenly the printer came to a halt and I couldn't get it to work. The printer head was very hot so I let it cool off a bit. Approximately an hour later I attempted to print out a disk directory to see if it would function. It responded, however slowly, still dragging. I shut it down and then inspected the printer head and travis rod.

I noticed that there was some black residue on the travis rod, so I used a small piece of clean cloth and wiped it down. While the printer was in the off state, I manually moved the printer head, which should slide easily but didn't. Very carefully I applied a spot of WD-40 lube on each side of the head. Then pushed the head in one direction and then in the other direction. All of a sudden the head moved easily.

The printer was powered up and sprung back to life again, printing as it should.

If you have a similar problem as described above, before using WD-40, place paper towels all around the area you intend to lubricate. You do not want to lubricate the whole printer, as any lubricant can attract dust and cause havoc with the electronics and hardware contained in your printer. Also, when applying the lube, use a spray head with a length of tubing so you can exactly pin-point the spot requiring lubrication. Use sparingly! LIST member Joe LaPunzina advised me that Radio Shack sells a teflon lube that will not attract dust. LUBE GEL part #64-2326 \$2.49.

Several years ago, thumbing through Computer Shopper Magazine, I noticed an ad for an upgrade for older Epson printers. I placed an order for the DotsPerfect upgrade from Dresselhaus Computer Products. Several weeks later the MX-80 upgrade arrived, which included an Eprom soldered to a small PC board and an instruction manual. The instructions were very clear with plenty of glossy photographs for each step upgrading the printer.

What does the upgrade do? An original Epson MX-80 printer was designed as an ASCII character printer, without decenders and without graphics. The upgrade consists of NLQ (Near Letter Quality) print mode, Draft Print Mode, IBM graphics emulation, Buffer CLEAR command and Panel Button Font Selection, using the Line Feed, Form Feed and On Line buttons.

If any one is interested in obtaining information about an upgrade for an older Epson printer, contact: Dresselhaus Computer Products, 8560 Vineyard Ave., Suite 405, Rancho Cucamonga, CA 91730.

See you next month - Bob Gilder -4-

ZX81 RESOURCES - JOYSTICK

Rene Bruneau November 1992

Several meetings ago, Jeff Taylor demoed a Zebra joystick interface for the ZX81. At that time, several people expressed an interest in making one, so I looked through my files for a circuit that I could use in a construction article. I found one written up in the June 1984 issue of Electronics Today International and changed one of the chips and added the edge connector to mount the interface on the back of the ZX81. The interface is I/O mapped to Port 31, making it compatible with the 2068 to play Spectrum and 2068 programs that use a Kempston Joystick system. It will also work with a Commodore 1351 mouse in joystick mode.

THE HARDWARE

As with past projects, I have provided a PCB mask to be photocopied onto TEC 200 mylar film for transferring to a blank board. Load the components as shown on the overlay, being careful to install the sockets and capacitor correctly. The edge connector is located on the copper side of the board, with the components and extender on the side facing away from the computer. Check for poor solder joints and jumps between traces and clean any that are suspect. Before you install the ICs on the board, plug the assembly onto the rear edge connector of your computer, turn it on, and confirm that the computer initializes properly. If it doesn't, quickly shut off the machine and check your work again.

TESTING

If you have access to a 2068, testing is simple. Enter the following program and run it with a joystick plugged in.

```
1 PRINT AT 15,10; IN 31
2 PAUSE 5
3 PRINT AT 15,10; "
4 GOTO 1
```

For the ZX81, a short machine code program must be entered as follows:

```
1 REM 123456
2 FOR X=16514 TO 16519
3 INPUT A
4 POKE X,A
5 NEXT X
6 CLS
7 PRINT AT 15,10;USR 16514
8 PRINT AT 15,10; "
9 GOTO 7
```

The data requested in line 3 is:
219, 31, 6, 0, 79, 201

If the interface is working correctly, a 0 will be printed in the middle of the screen. The number should change as you move the joystick or press the fire button. The number printed will correspond with those shown below. Note that holding the stick in the corners will give you a sum of the vertical and horizontal values. For example, with the stick in the top right corner a 9 is printed on the screen, holding down the fire button at the same time increases the number by 16 (DOWN + RIGHT + FIRE = 8 + 1 + 16 = 25)

ACTION	RESULT PRINTED	BIT
Right	1	0
Left	2	1
Up	4	2
Down	8	3
Fire	16	4

For those who have a copy of FIGHT SIMULATOR, here are some pokes to adapt it to allow the use of a joystick. Use a FOR/NEXT loop to enter the code. We will provide additional program pokes in future issues of this newsletter.

ADD.	DEC. CODE	PHNEMONIC
17316	205, 247, 75	Call 19447

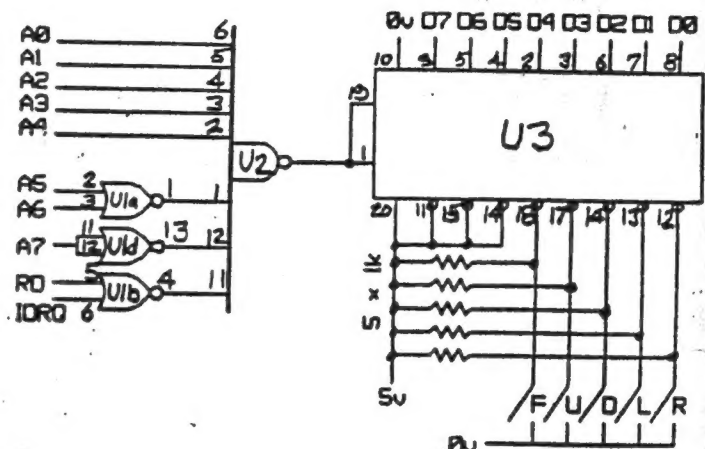
Write code to #2 REM statement with 50 Xs.

ADD.	CODE	LABEL	PHNEMONIC
19447	219, 31		IN A, 31
	254, 0		CP 0
	40, 32		JR Z, EXIT
	254, 4		CP 4
	32, 4		JRNZ, DOWN
	33, 239, 239		LD HL, 239, 239
	201		RET
	254, 8	DOWN	CP 8
	32, 4		JRNZ, LEFT
	33, 239, 223		LD HL, 223, 239
	201		RET
	254, 2	LEFT	CP 2
	32, 4		JRNZ, RIGHT
	33, 247, 223		LD HL, 223, 247
	201		RET
	254, 1	RIGHT	CP 1
	32, 4		JRNZ, EXIT
	33, 239, 247		LD HL, 247, 239
	201		RET
	205, 187, 2	EXIT	CALL KSCAN
	201		RET

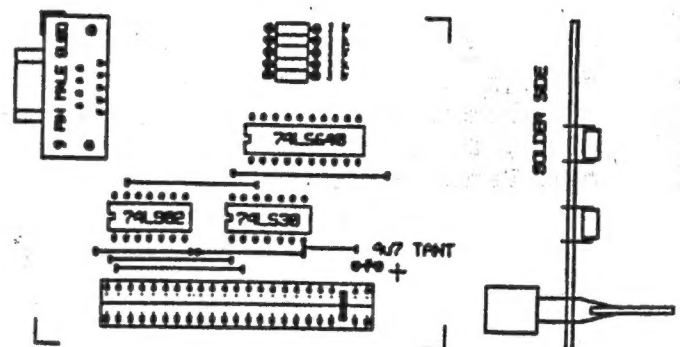
COMPONENT LIST

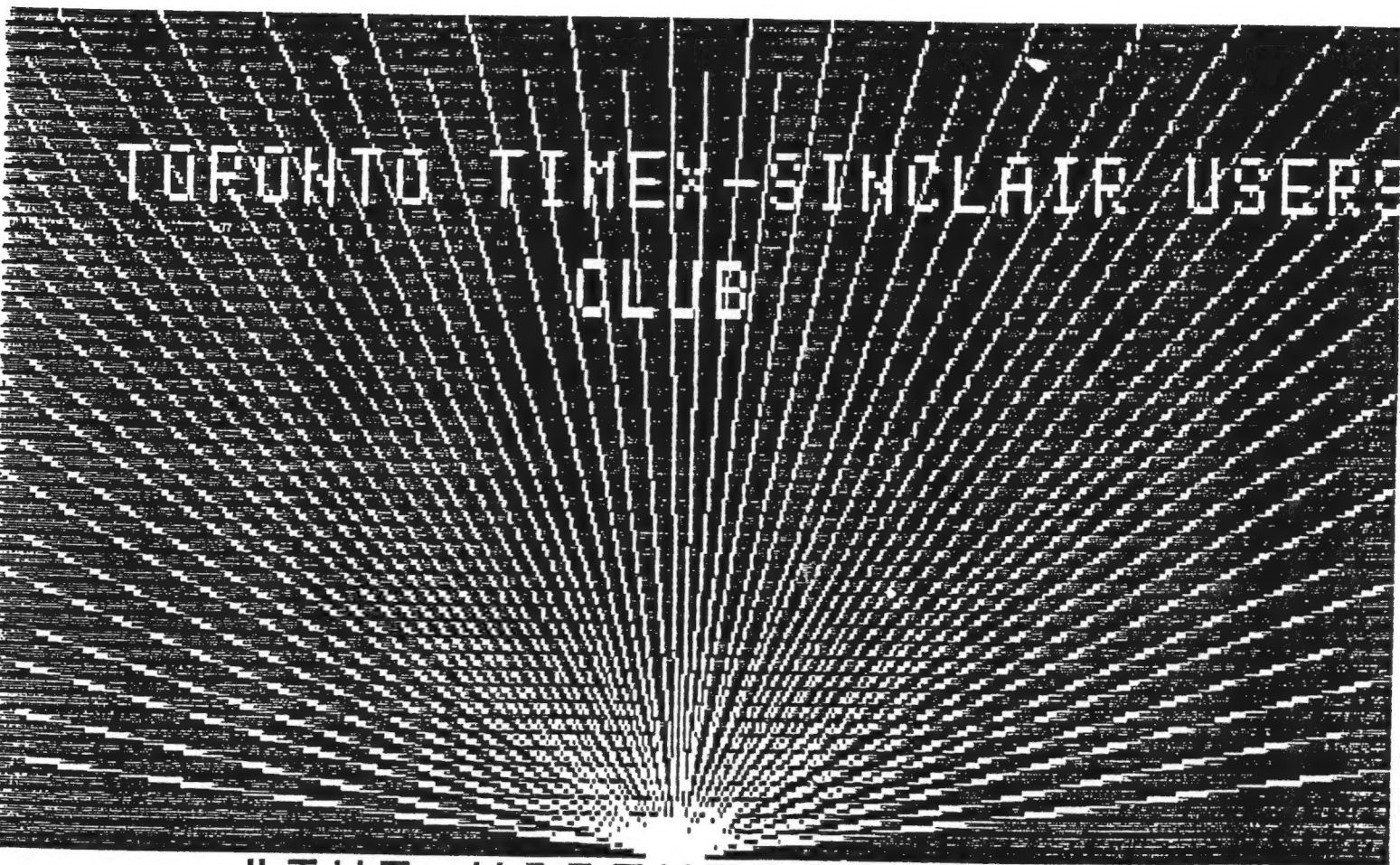
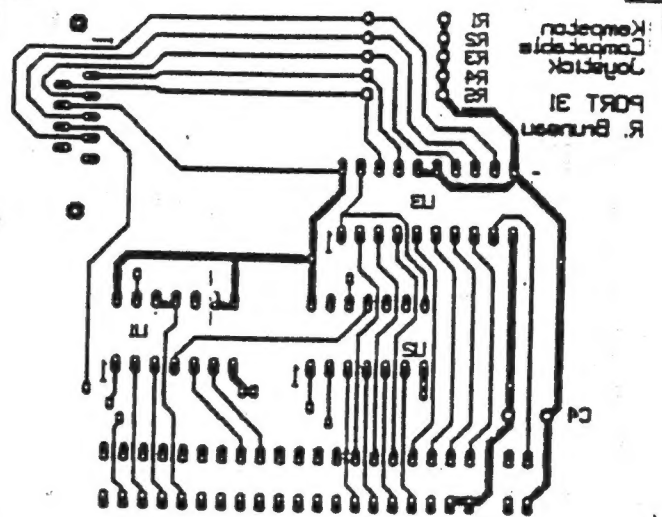
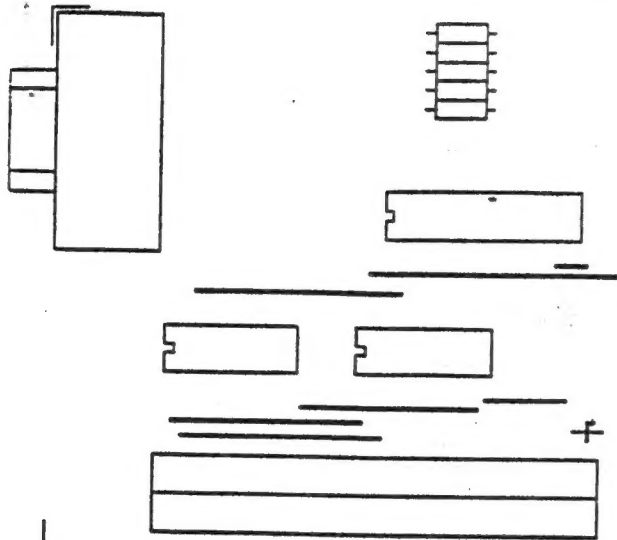
U1 74LS02
U2 74LS30
U3 74LS640
C1 4u7 Tantalum Capacitor
R1-R5 1K 1/4 watt Resistor
P1 Male 9-pin Subd Socket
P2 ZX81 Edge connector and extender
Misc. 2-14 pin dip, 1-20 pin dip, Solid wire for jumpers

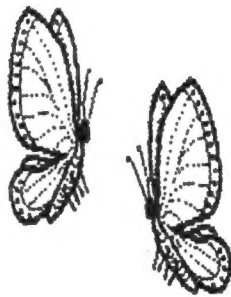
CIRCUIT DIAGRAM



COMPONENT PLACEMENT







VENDORS

K5XY

Here is a list of vendors who are more or less active in selling Sinclair equipment, software or services. The list is presented as a service to the reader. It is difficult to keep up with the activities of vendors because their interests (and stock) are continually changing. Therefore I have put a date code (the last two digits of the year and the month number) after the name of the company. The date code represents the last month that I saw reported in some way any activity on the part of the company. I may have received a catalog, or seen a notice in some newsletter that indicated that the company was still in business. In some cases I have added a line after the address giving my impression of the principle equipment or service that the vendor offers. If any reader knows of any other names that should be added to this list, please let me know.

Also it might be helpful if, when you write any of them, that you mention that you saw their address in QZX and that it would be useful if they took out at least an unclassified ad to help people keep up with their offerings.

Aerco 9209
Box 18093
Austin, TX 78760

(512)451-5874

Disk drive systems

Bob Swoger 9209

613 Parkside Circle

Streamwood, IL 60107-1647

(708)576-8068

disk operating system
additions

Byte-Back Inc. 9209

Box 112 536 Long Terrace

Leesville, SC 29070

Interface units

Computer Classics

9209

RT1 Box 117

Cabool, MO 655689

The best repair depot I
know of

Dayton Micro-Computer Assoc.,
Inc.

Gary M. Granger

9209

812 Hedwick St.

New Carlisle, OH 45344-2619

(513)849-1483

Yearly computer fest (AG)

Domino Cubes 9209

484 43rd St

New York, NY 10036

(212)971-0368
(212)268-4122 Fax
Z88

Ed Grey Enterprises 9209
Box 2186
Inglewood, CA 90305
(213)759-7406
(213)971-6260 BBS
interfaces, software

EMSoft 9209
Box 8763
Boston, MA 02114-8763
Sophisticated QL software

John McMichael 9209
1710 Palmer Dr.
Laramie, WY 82070
(303)742-4530
graphics

The John Oliger Co. 9209
11601 Whidbey Dr.
Cumberland, IN 46229
Disk drive systems

MDM Enterprises
706 S. Mason
Saginaw, MI 48602
(517)791-1088

Mechanical Affinity 9209
513 E. Main St
Peru, IN 46970
QL +

Mountainer Software 9209
749 Hill St. #9
Parkersburg, WV 26104
(304)424-7272

NAP_Ware
9209
Chicago, IL
(708)439-1679

Nigel Searle 9209
16 Church St
Keene, NH 03431
(800)388-9836
Z88

QL Hacker's Journal
4773 W. Braddock Rd #3
Alexandria, VA 22311
(703)820-6657

RMG Enterprises
9209
1419 1/2 7th St.
Oregon City, OR 97045
(503)655-7484
(503)655-4116 fax

Russell Electronics 9209
RD1 BOX 539
Center Hall, PA 16828

Sharp's Inc. 9209
Box 326
Mechanicsville, VA 23111
(804)730-9697
(804)746-1978 fax

Sinclair Desktop Publishing
Journal
1284 Bushwood Ave.
Cincinnati, OH 45224

Sunset Electronics 9209
2254 Taraval St
San Francisco, CA 94116

WIDJUP Co 9209
1120 Merrifield SE
Grand Rapids, MI 49507
(616)452-7004

Zunk 9209
1419 Ferris
Waxahachie, TX 75165

BOMBING MISSION

```

10 LET A=SGN PI
20 LET S=A-A
30 LET G=CODE "GRAPHIC S"
40 LET F=INT (RND*(G+G))+CODE
"e"
50 LET Z=A-A
60 LET X=A
70 PRINT AT G,A-A;"TYT6- 6/ TT
TTTTTTTTTTTTTTTTTT "
80 PRINT AT G,F;CHR# G
90 PAUSE (G+G)
100 FOR B=A-A TO CODE "0"
120 PRINT AT A,B;CHR# (A-A);"T6
T6 T"
130 IF INKEY#="6" THEN LET Z=A-A
140 IF Z=A THEN LET X=X+A
150 IF Z=A THEN PRINT AT X,B+A,
"-"
160 IF X=G THEN LET Z=A-A
170 IF X=G AND B+A=F THEN GOTO
CODE "ABS"
180 NEXT B
190 LET S=S+A
200 GOTO CODE "W"
210 PRINT AT G-A,F-(A-A);"YBOOM
T";AT G-(A+A),F-A;"Y6 T";TAB G;S
;" BOMB"+(S" AND S)A)

```

YOU SIT tensely in the seat of your cockpit, staring anxiously through your viewfinder at the ground. Your mission is to find and destroy the enemy munitions dump as quickly as possible. Your finger stabs at the key with the downward arrow marked on it and the bomb is released. The game runs on the 1K ZX-81; as the aircraft crosses the sky you must release your bomb using the 6 key to bomb the target on the ground marked with a graphic A. The target will appear randomly on each run.

Graphics notes:

Line 30, graphic S.

Line 70, graphics T, Y, T, 6, 2 '—', inverse space, graphic 6, /, space, 21 graphic Ts, inverse space.

Line 120, graphic T, 6, T, 8, space, graphic T.

Line 210 graphics graphics Y, 8, space, graphic T.



DETECTIVE

THIS INTERESTING concept for the 1K ZX-81 requires you to play the Detective, cross-questioning a series of murder suspects. You must first enter their names with the following short routine:

```
10—DIM A$(8,8)
20—FOR A=1 TO 8
30—INPUT BS
40—LET A$(A,1 TO 8)=BS
50—NEXT A
```

That should be RUN and eight names of five letters or fewer should be entered. That routine should then be deleted—by typing-in the line numbers only—and the complete program entered.

Note that there is no need to enter the names again after the program has been taped, as the names are also saved. To run the program you must press GOTO 0—not RUN. The computer then takes a few seconds to establish the position of the suspects, who can be in towns A or B, in the N or S and E or W of that town.

You are then given the position of the murderer and must establish his identity. Do that by entering a number between 1 and 8 to choose a suspect. Inputting 1 will reveal the town where the suspect was at the time of the murder and 2 and 3 will discover his position in the N or S, E or W. After 12 questions you must make an accusation by entering the number of a suspect. If you want to arrest someone early, enter 9.

A diverting idea from Colin Cushings, of Harlow, Essex.

```
10 FOR N=1 TO 8
20 LET A$(N,6)=CHR$(INT (RAND*
2)+38)
30 LET A$(N,7)=CHR$(INT (RAND
+2)+5)+51)
40 LET A$(N,8)=CHR$(INT (RAND
+2)+18)+42)
50 NEXT N
60 LET H=INT (RAND*8)+1
70 FOR A=1 TO 12
78 PRINT AT 18,13;A$(H,6);" ";
A$(H,7);" ";A$(H,8)
90 INPUT C
95 IF C=9 THEN GOTO 155
110 PRINT AT 8,13;A$(C,1 TO 5)
120 INPUT B
130 PRINT AT 11,15;A$(C,B+5)
135 PAUSE 200
140 CLS
150 NEXT A
155 PRINT "WHO DO YOU ACCUSE"
160 INPUT A
165 PRINT AT 11,13;"-----"
170 IF A=H THEN PRINT AT 11,13;
"-----"
180 PRINT A$(H,1 TO 5);" DID IT
```